

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
April 2002

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on September 10, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of April 2002.

Statewide precipitation and runoff were both 80 percent of average for the 2001-2002 water year through April. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: "http://cdec.water.ca.gov/snow_rain.html".

On April 30, total storage in major SWP reservoirs was about 4.26 MAF, compared with about 3.77 MAF at this time in 2001. The average storage in the major SWP reservoirs at the end of April was about 4.4 MAF. End of month storage at Lake Oroville was about 2.66 MAF as compared to 2.19 MAF last year. The State's share of San Luis Reservoir storage was about 984 TAF, as compared with 985 TAF at this time last year. The end of month combined storage in our southern reservoirs was about 617 TAF, compared with about 604 TAF at this time last year.

Through April, SWP water deliveries for 2002 were about 734 TAF. This is a combination of project, transfer, and exchange waters. This was about 206 TAF more than that delivered during the same period in 2001.

A share exchange totaling 12,100 AF was made from USBR storage to DWR storage in O'Neill Forebay and from DWR storage to USBR storage in San Luis Reservoir.

April started with DWR and USBR combined exports meeting demands. Water quality proved sufficient throughout the first 14 days. Exports were governed in part by concerns for X2. The Vernalis Adaptive Management Plan went into effect on April 15 and combined DWR and USBR exports were reduced to 1500 cfs through the end of the month.

Even with near average precipitation, SWP allocations were still relatively low at 60 percent due to low Project carryover storage and conservative runoff forecasts for the remainder of the year; both influenced by the dry conditions in the previous water year.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Mar 31	4997.69	18,754								
1	4997.95	18,972	218	5	0	0	0			
2	4998.24	19,217	245	5	0	0	0			
3	4998.54	19,472	255	5	0	0	0			
4	4998.89	19,773	301	5	0	0	0			
5	4999.22	20,059	286	5	0	0	0			
6	4999.53	20,330	271	5	0	0	0			
7	4999.81	20,577	247	5	0	0	0			
8	5000.11	20,850	273	5	0	0	0			
9	5000.38	21,090	240	5	0	0	0			
10	5000.66	21,341	251	5	0	0	0			
11	5000.96	21,611	270	5	0	0	0			
12	5001.26	21,883	272	5	0	0	0			
13	5001.58	22,176	293	5	0	0	0			
14	5002.02	22,583	407	5	0	0	0			
15	5002.34	22,881	298	5	0	0	0	9		
16	5002.49	23,022	141	0	0	0	0	34		
17	5002.60	23,135	113	0	0	0	0	53		
18	5002.64	23,163	28	0	0	0	0	64		
19	5002.64	23,163	0	0	0	0	0	64		
20	5002.64	23,163	0	0	0	0	0	64		
21	5002.64	23,163	0	0	0	0	0	64		
22	5002.64	23,163	0	0	0	0	0	64		
23	5002.66	23,182	19	0	0	0	0	69		
24	5002.68	23,201	19	0	0	0	0	73		
25	5002.70	23,219	18	0	0	0	0	76		
26	5002.80	23,314	95	0	0	0	0	87		
27	5002.82	23,333	19	0	0	0	0	98		
28	5002.75	23,267	-66	0	0	0	0	81		
29	5002.72	23,229	-38	0	0	0	0	85		
30	5002.69	23,210	-19	0	0	0	0	79		
Total cfs-days				- - -	75	0	0	1,064	91	
Total ac-ft				4,456	149	0	0	2,110	181	
									2,440	
									6,896	

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Mar 31	5570.99	32,474								
1	5571.08	32,576	102	2	0	0	0			
2	5571.17	32,678	102	2	0	0	0			
3	5571.25	32,769	91	2	0	0	0			
4	5571.34	32,871	102	2	0	0	0			
5	5571.44	32,985	114	2	0	0	0			
6	5571.54	33,099	114	2	0	0	0			
7	5571.62	33,191	92	2	0	0	0			
8	5571.69	33,271	80	2	0	0	0			
9	5571.78	33,374	103	2	0	0	0			
10	5571.85	33,455	81	2	0	0	0			
11	5571.92	33,536	81	2	0	0	0			
12	5572.00	33,628	92	2	0	0	0			
13	5572.06	33,697	69	2	0	0	0			
14	5572.13	33,778	81	2	0	0	0			
15	5572.22	33,883	105	2	0	0	0			
16	5572.29	33,964	81	2	0	0	0			
17	5572.36	34,046	82	2	0	0	0			
18	5572.43	34,127	81	2	0	0	0			
19	5572.48	34,186	59	2	0	0	0			
20	5572.52	34,233	47	2	0	0	0			
21	5572.55	34,268	35	2	0	0	0			
22	5572.59	34,315	47	2	0	0	0			
23	5572.64	34,373	58	2	0	0	0			
24	5572.66	34,397	24	2	0	0	0			
25	5572.69	34,432	35	2	0	0	0			
26	5572.73	34,479	47	2	0	0	0			
27	5572.77	34,526	47	2	0	0	0			
28	5572.79	34,549	23	2	0	0	0			
29	5572.89	34,667	118	2	0	0	0			
30	5572.93	34,716	49	1	6	0	0			
Total cfs-days			---	59	6	0	0	117	182	1,312
Total ac-ft			2,242	117	12	0	0	232	361	2,603

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Mar 31	5765.35	50,336									
1	5765.35	50,336	0	10	0	0	0				
2	5765.38	50,427	91	10	0	0	0				
3	5765.45	50,638	211	10	0	0	0				
4	5765.53	50,880	242	10	0	0	0				
5	5765.55	50,941	61	10	0	0	0				
6	5765.64	51,215	274	10	0	0	0				
7	5765.64	51,215	0	10	0	0	0				
8	5765.64	51,215	0	10	0	0	0				
9	5765.64	51,215	0	10	0	0	0				
10	5765.64	51,215	0	10	0	0	0				
11	5765.80	51,703	488	10	0	0	0				
12	5765.84	51,826	123	10	0	0	0				
13	5765.87	51,918	92	10	0	0	0				
14	5765.90	52,010	92	10	0	0	0				
15	5765.90	52,010	0	10	0	0	0				
16	5765.86	51,887	-123	10	0	0	0				
17	5765.90	52,010	123	5	0	0	0				
18	5765.96	52,195	185	8	0	0	0				
19	5765.97	52,225	30	10	0	0	0				
20	5765.97	52,225	0	10	0	0	0				
21	5765.98	52,256	31	10	0	0	0				
22	5765.99	52,287	31	10	0	0	0				
23	5766.01	52,349	62	10	0	0	0				
24	5766.00	52,318	-31	10	0	0	0				
25	5766.00	52,318	0	10	0	0	0				
26	5765.98	52,256	-62	10	0	0	0				
27	5765.96	52,195	-61	10	0	0	0				
28	5765.96	52,195	0	10	0	0	0				
29	5765.96	52,195	0	10	0	0	0				
30	5765.96	52,195	0	10	0	0	0				
Total cfs-days				---	293	0	0	0	307	600	1,537
Total ac-ft				1,859	581	0	0	0	609	1,190	3,049

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Mar 31	819.11	2,414,816								
	1	819.88	2,424,120	9,304	4,423	0	186	0	4,609	1,039
	2	820.78	2,435,035	10,915	3,052	0	135	0	3,187	0
	3	821.73	2,446,594	11,559	3,652	0	129	0	3,781	0
	4	822.76	2,459,170	12,576	3,517	10	104	0	3,631	902
	5	823.84	2,472,405	13,235	4,050	11	59	0	4,120	1,203
	6	824.96	2,486,182	13,777	437	6	72	0	515	1,223
	7	826.69	2,507,570	21,388	76	6	125	0	207	7,486
	8	827.65	2,519,494	11,924	1,789	6	139	0	1,934	902
	9	828.46	2,529,585	10,091	2,665	6	126	0	2,797	0
	10	829.42	2,541,582	11,997	2,330	6	40	0	2,376	0
	11	830.29	2,552,489	10,907	3,276	6	100	0	3,382	0
	12	831.06	2,562,169	9,680	4,662	6	134	0	4,802	587
	13	831.93	2,573,138	10,969	3,394	6	188	0	3,588	0
	14	832.98	2,586,419	13,281	2,457	6	148	0	2,611	826
	15	834.07	2,600,256	13,837	3,515	6	216	0	3,737	1,337
	16	834.78	2,609,298	9,042	4,118	6	142	1	4,267	797
	17	835.41	2,617,339	8,041	5,148	6	34	0	5,188	977
	18	835.86	2,623,093	5,754	4,604	6	89	0	4,699	0
	19	836.21	2,627,575	4,482	6,776	6	123	5	6,910	781
	20	836.52	2,631,549	3,974	3,252	6	171	0	3,429	0
	21	837.00	2,637,710	6,161	4,114	6	177	0	4,297	1,051
	22	837.12	2,639,252	1,542	7,529	6	185	0	7,720	0
	23	837.24	2,640,794	1,542	6,557	10	281	0	6,848	0
	24	837.46	2,643,623	2,829	7,283	12	212	0	7,507	1,550
	25	837.78	2,647,743	4,120	7,878	12	185	0	8,075	1,696
	26	837.99	2,650,449	2,706	8,739	12	144	0	8,895	1,350
	27	838.37	2,655,350	4,901	5,590	12	103	0	5,705	0
	28	838.67	2,659,224	3,874	5,563	12	117	0	5,692	0
	29	838.65	2,658,966	-258	9,159	12	110	0	9,281	0
	30	838.66	2,659,095	129	8,782	12	41	0	8,835	0
Total				244,279	138,387	217	4,015	6	142,625	23,707
										363,197

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

April 2002

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Mar 31	23,908										
1	24,013	105	4,423	505	1,314	3,457	0	6	1,255	1,039	-380
2	23,964	-49	3,052	510	0	2,674	0	6	1,257	0	326
3	24,057	93	3,652	505	0	2,885	0	6	1,275	0	102
4	23,968	-89	3,517	541	1,593	3,642	0	6	1,267	902	77
5	23,793	-175	4,050	478	2,048	4,348	0	6	1,261	1,203	67
6	24,261	468	437	505	2,145	173	0	6	1,257	1,223	40
7	22,482	-1,779	76	488	6,232	0	0	6	1,253	7,486	170
8	24,099	1,617	1,789	506	1,618	178	0	6	1,249	902	39
9	23,709	-390	2,665	510	0	2,380	0	6	1,253	0	74
10	24,053	344	2,330	506	0	1,219	0	6	1,249	0	-18
11	23,945	-108	3,276	466	0	2,659	0	6	1,251	0	66
12	23,981	36	4,662	436	1,026	4,279	0	6	1,241	587	25
13	24,274	293	3,394	432	0	2,329	0	6	1,241	0	43
14	23,881	-393	2,457	500	780	2,057	0	6	1,239	826	-2
15	23,878	-3	3,515	502	1,319	2,821	0	6	1,237	1,337	62
16	23,759	-119	4,119	549	792	3,539	1	6	1,259	797	23
17	23,895	136	5,148	454	1,002	4,352	1	6	1,255	977	123
18	23,685	-210	4,604	512	0	4,151	1	6	1,251	0	83
19	24,040	355	6,781	504	1,549	6,424	1	6	1,255	781	-12
20	23,634	-406	3,252	510	0	3,042	1	6	1,251	0	132
21	23,526	-108	4,114	510	1,321	3,847	1	6	1,247	1,051	99
22	24,104	578	7,529	508	0	6,389	1	6	1,247	0	184
23	23,578	-526	6,557	508	0	6,343	1	6	1,253	0	12
24	23,762	184	7,283	296	2,079	6,983	1	6	1,249	1,550	315
25	23,646	-116	7,878	508	1,885	7,489	1	6	1,249	1,696	54
26	23,546	-100	8,739	510	2,568	9,564	1	6	1,253	1,350	257
27	24,060	514	5,590	514	0	4,422	1	6	1,253	0	92
28	24,053	-7	5,563	508	0	4,903	1	6	1,253	0	85
29	23,732	-321	9,159	500	0	8,770	1	6	1,263	0	60
30	23,874	142	8,782	508	0	8,047	1	6	1,263	0	169
Total		-34	138,393	14,789	29,271	123,366	15	180	37,586	23,707	2,367

1/ Sum of Thermalito Forebay and Diversion Pool.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

3/ Includes Bypass flows at Thermalito.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Mar 31	129.67	31,064											
1	129.93	31,919	855	3,457	0	0	0	0	1,155	1,314	-133	2,410	
2	130.39	33,460	1,541	2,674	0	0	0	0	1,162	0	29	2,419	
3	130.88	35,139	1,679	2,885	0	0	0	0	1,148	0	-58	2,423	
4	131.15	36,080	941	3,642	0	0	0	0	1,162	1,593	54	2,429	
5	131.39	36,927	847	4,348	0	0	0	0	1,159	2,048	-294	2,420	
6	130.47	33,731	-3,196	173	0	0	0	0	1,142	2,145	-82	2,399	
7	128.30	26,737	-6,994	0	0	0	0	0	1,152	6,232	390	2,405	
8	127.41	24,092	-2,645	178	0	0	0	61	1,155	1,618	11	2,404	
9	127.76	25,116	1,024	2,380	0	0	0	95	1,159	0	-102	2,412	
10	127.58	24,587	-529	1,219	308	0	0	151	1,160	0	-129	2,409	
11	127.89	25,502	915	2,659	397	0	0	192	1,152	0	-3	2,403	
12	128.35	26,889	1,387	4,279	468	0	0	194	1,155	1,026	-49	2,396	
13	128.49	27,319	430	2,329	496	0	45	188	1,141	0	-29	2,382	
14	128.39	27,012	-307	2,057	494	0	112	190	1,159	780	371	2,398	
15	128.06	26,011	-1,001	2,821	581	0	180	282	1,159	1,319	-301	2,396	
16	128.16	26,312	301	3,539	722	0	264	363	1,162	792	65	2,421	
17	128.31	26,767	455	4,352	881	0	301	393	1,162	1,002	-158	2,417	
18	128.65	27,813	1,046	4,151	1,083	0	305	393	1,166	0	-158	2,417	
19	129.16	29,417	1,604	6,424	1,246	0	305	450	1,152	1,549	-118	2,407	
20	128.96	28,783	-634	3,042	1,440	0	389	561	1,152	0	-134	2,403	
21	128.49	27,319	-1,464	3,847	1,533	0	462	712	1,160	1,321	-123	2,407	
22	129.06	29,099	1,780	6,389	1,843	0	549	906	1,154	0	-157	2,401	
23	129.41	30,219	1,120	6,343	2,182	0	573	1,055	1,150	0	-263	2,403	
24	129.15	29,385	-834	6,983	2,579	8	595	1,085	1,159	2,079	-312	2,408	
25	129.06	29,099	-286	7,489	2,916	13	674	1,218	1,159	1,885	90	2,408	
26	129.26	29,737	638	9,564	3,134	26	732	1,394	1,166	2,568	94	2,419	
27	128.40	27,042	-2,695	4,422	3,392	28	764	1,482	1,162	0	-289	2,415	
28	127.63	24,734	-2,308	4,903	3,431	28	734	1,531	1,159	0	-328	2,412	
29	128.34	26,859	2,125	8,770	3,392	60	795	1,581	1,154	0	337	2,417	
30	128.55	27,504	645	8,047	3,352	69	821	1,583	1,154	0	-423	2,417	
Total				-3,560	123,366	35,870	232	8,600	16,060	34,691	29,271	-2,202	72,277

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

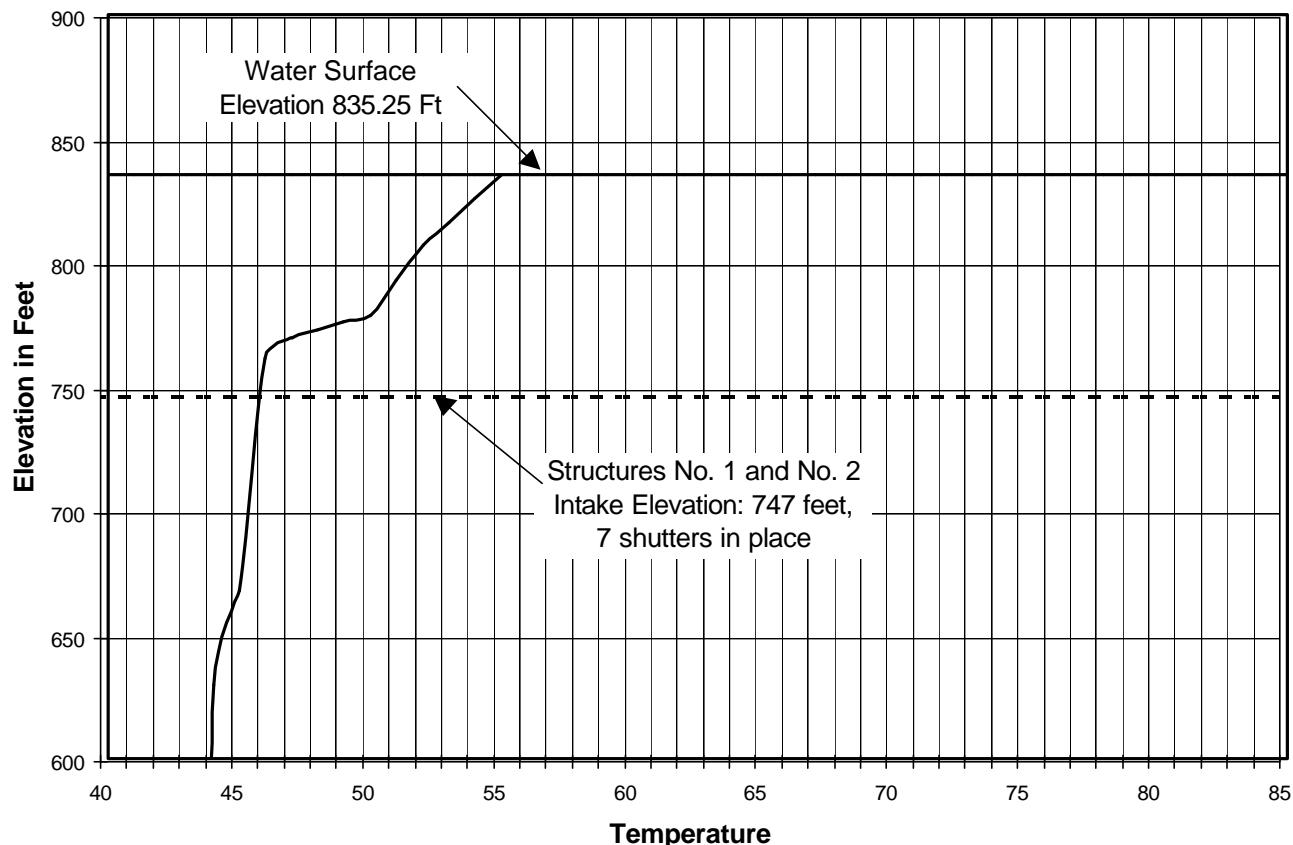
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

April 2002

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	60	53
2	60	51
3	60	49
4	60	49
5	60	50
6	62	50
7	62	54
8	62	56
9	62	54
10	61	53
11	61	52
12	65	52
13	65	52
14	65	52
15	64	52
16	62	52
17	59	52
18	60	51
19	60	51
20	59	51
21	60	51
22	61	51
23	62	50
24	63	50
25	64	50
26	62	50
27	60	50
28	60	50
29	59	50
30	57	50

**Lake Oroville Temperature Profile
on April 17, 2002**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Extended Carryover		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	3,467	17	8	200	200		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	217						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	8						
				Solano County Water Agency Fairfield / Vacaville 42"	0						
			17.00	Solano County Water Agency Central Solano	Stub						
2	3A	Cordelia Forebay	21.23			160	166	850	850		
		Cordelia Pumping Plant & Cordelia Spillway	21.30		3,142						
3B	2	Napa Pipeline	21.33	Solano County Water Agency Vallejo	1,010	1	913	202	202		
				Solano County Water Agency Benicia	1,016						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	1						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	913						
			27.60	Napa County Flood Control & WCD American Canyon 1	202						

Table 9. Delta Field Division Plant Data

(in acre-feet)

April 2002

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		Gravity Flow Through Plant Into Aqueduct
			Total	SWP		Into Lake	Into Aqueduct	
1	136	128	7,511	7,511	372	0	0	0
2	141	125	7,045	7,045	372	0	0	0
3	127	116	7,264	7,264	423	44	0	0
4	118	106	7,208	7,208	443	82	0	0
5	123	112	8,149	8,149	492	90	0	0
6	106	103	9,806	9,806	570	163	0	0
7	110	105	8,203	8,203	531	162	0	0
8	114	107	9,254	9,254	564	148	0	0
9	99	86	9,361	9,361	546	154	0	0
10	101	86	6,787	6,787	539	154	0	0
11	99	86	7,615	7,615	522	131	0	0
12	101	89	6,268	6,268	245	27	0	0
13	99	93	7,375	7,375	534	159	0	0
14	113	108	8,845	8,845	548	150	0	0
15	135	126	810	810	373	0	0	0
16	136	120	0	0	327	0	0	63
17	135	121	0	0	200	0	0	180
18	128	108	0	0	112	0	0	228
19	119	105	231	231	85	0	0	216
20	113	108	1,229	1,229	34	0	0	220
21	107	106	993	993	0	0	0	228
22	119	107	1,077	1,077	0	0	0	234
23	150	137	1,170	1,170	0	0	0	246
24	160	138	1,186	1,186	72	0	0	231
25	142	129	1,189	1,189	211	0	0	120
26	115	102	1,960	1,960	312	88	0	31
27	93	89	1,152	1,152	442	176	0	0
28	84	83	1,165	1,165	418	169	0	0
29	74	67	1,184	1,184	456	181	0	0
30	70	46	1,180	1,180	460	210	0	0
Total	3,467	3,142	125,217	125,217	10,203	2,288	0	1,997

Table 10. Clifton Court Forebay

Daily Operation of Gates

April 2002

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	---	6:25	9:14	13:35	19:30	21:00			7,535
2	0:01	7:14	10:00	12:00					6,729
3	0:01	8:18	11:00	13:00					7,338
4	0:01	9:49							7,324
5	0:04	11:00	13:01	15:45					8,686
6	1:40	12:15	14:30	17:30					9,833
7	0:50	10:05	11:37	14:15	16:15	19:00			9,001
8	2:00	10:50	13:05	15:00	17:13	20:25			8,508
9	3:00	11:25	13:20	15:40	22:00	23:45			7,320
10	3:00	8:50	23:30	---					6,935
11	---	0:20	3:20	9:25	23:30	---			7,140
12	---	4:49	7:47	11:26	23:30	---			6,940
13	---	5:17	8:30	11:26					6,336
14	0:01	5:46	8:30	11:00					6,729
15	0:01	1:15							986
16	0:51	4:01	23:02	---					1,176
17	---	2:59							1,159
18	1:00	2:11							946
19	0:01	2:00	12:00	13:00					1,179
20	0:30	3:00							1,266
21	0:01	2:15							1,289
22	2:15	3:08							1,285
23	2:42	3:44							1,273
24	5:30	7:14	19:11	20:30					1,283
25	2:40	4:25							1,259
26	1:30	3:00							1,272
27	0:07	4:10	22:00	22:40					1,274
28	1:30	4:00							1,286
29	2:52	4:34							1,286
30	9:46	11:06							1,217
Total inflow for the month in AF:									125,790

Table 11. Governor Edmund G. Brown California Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries						
	Beginning and Ending					Entitle-ment	USBR	Local	Loan Water	Article 21 Water		
	No.	Structure	Mile									
1	1	Banks Pumping Plant	3.32		125,217		67					
		South Bay Pumping Plant	4.49		10,203							
		Check No. 1	5.95									
		Check No. 2	12.01									
			12.47		Musco Olive	67						
		Check No. 3	18.29									
			22.16		Tracy Golf & Country Club	0						
		Check No. 4	23.99									
		Check No. 5	29.73									
		Check No. 6	34.24									
2A			35.22		Turlock Fruit Company Inflow	0						
		Check No. 7	39.91									
	8		42.46		Oak Flat Water District-A	43	43	50	50	50		
			42.9		Western Hills WD	89	89					
			43.81		Oak Flat Water District-B	263	213					
			44.64		Oak Flat Water District-C	70	70					
		Check No. 8	45.97									
	9		46.18		Oak Flat Water District-D	240	240	50	50	50		
					Oak Flat Totals:	616	566					
		Check No. 9	51.3									
2B	10	Check No. 10	56.86									
	11	Check No. 11	61.4									
	12		66.14		Veteran's Cemetery	7	7	50	50	50		
		Check No. 12	66.71			106,874						

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	EWA 2:1 Exchange Water	Article 21 Water	Local	Recre-ation		
	No.	Structure	Mile									
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	0	2	205	670	670			
			3.17	Granite - Vasco Rd. (Temp.)	0							
			3.18	Oakland Scavenger Zone 7	2							
		Check No. 1	3.91									
	2	Check No. 2	5.21									
2	3		7.21	Zone 7 Altamont	0	4	1,136	332	7			
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	670							
				Zone 7 Patterson Project Water	205							
4	4	Check No. 4	10.68									
	5	Check No. 5	12.29									
	6		13.55	Zone 7 Wente #1	0							
			14.16	Zone 7 Wente #2	0							
			14.31	Ising Project Water	0							
			Check No. 6	14.65								
	7		14.78	Zone 7 Arroyo Mocho	1,136							
			Check No. 7	16.38								
5	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente #3	0	37	78	1,665	37			
			16.69	Zone 7 Norman Nursery	0							
			16.70	Zone 7 Concannon Project Water	0							
			18.63	(Pumped into Lake Del Valle)	2,288							
				(Flow into South Bay Aqueduct)	1,997							
				Arroyo Valle #1 & #2 Project Water	0							
				Arroyo Valle #1 & #2 Inflow Released	332							
				Lake Del Valle Recreation	7							
				Zone 7 Wente #5	37							
				So. Livermore Project	78							
6			19.20	So. Livermore Storage Released	1,665	8	8	2,164	202			
				So. Livermore Stored Exchanged	37							
				Zone 7 - Kalthrof Detjens	8							
			22.50	ACWD Vallecitos Project Water	0							
7		La Costa Tunnel		City of San Francisco San Antonio	0							
		28.97	ACWD - Bayside 1 & 2 Project Water: Inflow Released	2,164	2,255	1,111	202					
8			Mission Tunnel							Stored Exchange:	0	
		35.86	S.C.V.W.D. Meter	3,568								
9		Santa Clara Pipeline										

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

April 2002

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Mar 31	694.86	34,412									
1	694.88	34,425	13	23	0	0	0	0	10	10	0.00
2	695.03	34,521	96	101	0	0	0	0	5	5	0.00
3	695.10	34,565	44	5	44	0	0	0	5	5	0.00
4	695.23	34,647	82	6	82	0	0	0	6	6	0.00
5	695.37	34,737	90	3	90	0	0	0	3	3	0.00
6	695.62	34,899	162	3	163	0	0	0	4	4	0.00
7	695.87	35,060	161	3	162	0	0	0	4	4	0.00
8	696.09	35,207	147	6	148	0	0	0	7	7	0.00
9	696.32	35,360	153	4	154	0	0	0	5	5	0.00
10	696.56	35,513	153	4	154	0	0	0	5	5	0.02
11	696.76	35,644	131	6	131	0	0	0	6	6	0.00
12	696.79	35,671	27	5	27	0	0	0	5	5	0.00
13	697.04	35,830	159	7	159	0	0	0	7	7	0.00
14	697.26	35,979	149	8	150	0	0	0	9	9	0.00
15	697.26	35,979	0	9	0	0	0	0	9	9	0.00
16	697.17	35,917	-62	10	0	0	63	0	9	72	0.00
17	696.90	35,739	-178	6	0	0	180	0	4	184	0.26
18	696.56	35,513	-226	6	0	0	228	0	4	232	0.06
19	696.22	35,299	-214	12	0	0	216	0	10	226	0.00
20	695.90	35,081	-218	13	0	0	220	0	11	231	0.00
21	695.55	34,856	-225	9	0	0	228	0	6	234	0.00
22	695.29	34,625	-231	10	0	0	234	0	7	241	0.00
23	694.81	34,382	-243	16	0	0	246	0	13	259	0.00
24	694.46	34,154	-228	14	0	0	231	1	10	242	0.00
25	694.27	34,035	-119	10	0	0	120	1	8	129	0.00
26	694.36	34,092	57	5	88	0	31	1	4	36	0.00
27	694.60	34,267	175	8	176	0	0	1	8	9	0.10
28	694.90	34,435	168	6	169	0	0	1	6	7	0.02
29	695.17	34,615	180	7	181	0	0	1	7	8	0.04
30	695.50	34,824	209	5	210	0	0	1	5	6	0.01
Total				412	332	2,288	0	1,997	7	204	2,208
											0.51

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

April 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Mar 31	221.52	47,125											
1	221.59	47,309	184	0	2,822	0	3,495	0	0	5,978	14	-232	
2	220.65	44,844	-2,465	0	2,820	0	3,026	0	0	6,892	9	-188	
3	220.15	43,541	-1,303	0	2,818	0	3,200	0	0	6,658	9	-8	
4	220.40	44,192	651	0	2,856	0	3,115	0	244	5,318	10	-71	
5	219.40	41,605	-2,587	0	2,037	0	3,751	0	855	6,100	12	-125	
6	219.80	42,635	1,030	0	1,412	884	4,289	0	0	6,090	12	36	
7	219.04	40,686	-1,949	0	1,471	0	3,745	0	0	6,230	5	36	
8	219.44	41,708	1,022	0	1,609	0	4,043	0	0	5,197	5	65	
9	220.11	43,437	1,729	0	1,863	0	4,215	0	0	5,510	17	321	
10	220.25	43,801	364	0	1,857	0	2,965	0	0	4,632	18	12	
11	221.36	46,705	2,904	0	1,755	0	3,505	0	0	3,953	10	167	
12	221.37	46,731	26	0	1,558	0	2,743	0	0	4,376	11	99	
13	221.73	47,677	946	0	1,479	0	2,852	0	0	3,942	6	94	
14	222.30	49,182	1,505	0	1,488	0	3,929	0	0	4,541	17	-100	
15	222.31	49,208	26	0	701	3,253	180	449	0	3,912	16	256	
16	221.44	46,915	-2,293	0	0	3,415	0	688	0	3,633	25	-225	
17	220.03	43,230	-3,685	0	0	3,445	0	899	0	4,155	24	-225	
18	219.60	42,119	-1,111	0	0	5,444	0	906	0	4,809	14	-275	
19	221.10	46,023	3,904	0	0	7,568	0	1,065	0	4,474	15	-46	
20	221.25	46,416	393	0	0	6,259	0	1,084	0	4,722	7	-248	
21	220.83	45,315	-1,101	0	0	4,964	487	1,201	0	4,549	18	-238	
22	222.38	49,394	4,079	0	0	6,904	552	1,275	0	3,987	17	-121	
23	223.46	52,276	2,882	0	0	6,618	601	1,110	0	4,614	19	-23	
24	222.40	49,447	-2,829	0	0	3,900	757	1,248	0	4,868	20	53	
25	221.57	47,257	-2,190	0	0	5,401	506	1,353	0	5,296	11	-351	
26	221.38	46,758	-499	0	0	5,564	754	1,311	0	5,193	12	-54	
27	221.84	47,966	1,208	0	0	6,480	124	1,272	0	4,467	6	-250	
28	220.73	45,054	-2,912	0	0	4,714	244	1,266	0	4,672	23	-465	
29	221.71	47,625	2,571	0	0	5,803	487	984	0	3,846	4	-160	
30	222.78	50,459	2,834	0	0	7,303	319	949	0	5,015	14	-215	
Total				3,334	0	28,546	87,919	53,884	17,060	1,099	147,629	400	-2,480
Mean cfs				---	0	952	2,931	1,796	569	37	4,921	13	-83
Acre-feet				3,334		56,621	174,392	106,874	33,842	2,179	292,821	794	-4,917

1/ Pump-in located at Mile 79.67R.

2/ Includes 45 AF delivered to DFG at O'Neill Forebay, 16 AF to Parks and Recreation, and 733 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

April 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Mar 31	543.01	2,027,963						
1	542.99	2,027,708	-255	0	0	162	0	33
2	542.95	2,027,200	-508	0	0	156	0	-100
3	542.91	2,026,692	-508	0	0	165	0	-91
4	542.88	2,026,311	-381	244	0	131	0	-305
5	542.97	2,027,454	1,143	855	0	162	0	-117
6	542.84	2,025,803	-1,651	0	884	178	0	230
7	542.81	2,025,422	-381	0	0	178	0	-14
8	542.77	2,024,914	-508	0	0	186	0	-70
9	542.72	2,024,279	-635	0	0	210	0	-110
10	542.70	2,024,025	-254	0	0	182	0	54
11	542.66	2,023,517	-508	0	0	254	0	-2
12	542.63	2,023,136	-381	0	0	191	0	-1
13	542.59	2,022,628	-508	0	0	240	0	-16
14	542.54	2,021,993	-635	0	0	213	0	-107
15	541.98	2,014,889	-7,104	0	3,253	205	0	-124
16	541.58	2,009,820	-5,069	0	3,415	141	0	1,000
17	540.98	2,002,224	-7,596	0	3,445	216	0	-169
18	540.11	1,991,229	-10,995	0	5,444	205	0	106
19	538.90	1,975,971	-15,258	0	7,568	228	0	104
20	537.88	1,963,141	-12,830	0	6,259	264	0	55
21	537.06	1,952,847	-10,294	0	4,964	272	0	46
22	535.96	1,939,069	-13,778	0	6,904	267	0	225
23	534.85	1,925,199	-13,870	0	6,618	287	0	-88
24	534.16	1,916,595	-8,604	0	3,900	309	0	-129
25	533.25	1,905,269	-11,326	0	5,401	306	0	-3
26	532.33	1,893,841	-11,428	0	5,564	307	0	109
27	531.24	1,880,332	-13,509	0	6,480	315	0	-16
28	530.48	1,870,934	-9,398	0	4,714	317	0	293
29	529.52	1,859,085	-11,849	0	5,803	310	0	139
30	528.31	1,844,188	-14,897	0	7,303	439	1	233
Total			-183,775	1,099	87,919	6,996	1	1,165
Mean cfs			---	37	2,931	233	0	39
Acre-feet			-183,775	2,179	174,392	13,875	1	2,314

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 12,225 AF, San Benito: 1,650 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

April 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	11,858	10,068	0	0	0	0	322
2	13,670	11,849	0	0	0	0	309
3	13,206	11,408	0	0	0	0	327
4	10,548	8,765	0	0	484	-24	260
5	12,100	10,326	0	0	1,695	-7	321
6	12,079	9,506	1,754	-34	0	0	354
7	12,357	9,208	0	0	0	0	354
8	10,308	6,982	0	0	0	0	369
9	10,929	6,824	0	0	0	0	417
10	9,187	5,264	0	0	0	0	361
11	7,840	5,168	0	0	0	0	503
12	8,679	6,014	0	0	0	0	379
13	7,819	5,127	0	0	0	0	476
14	9,008	6,318	0	0	0	0	422
15	7,759	5,086	6,452	6,452	0	0	406
16	7,206	4,620	6,774	2,984	0	0	279
17	8,242	5,578	6,833	3,051	0	0	429
18	9,538	6,950	10,798	6,990	0	0	407
19	8,875	6,262	15,012	7,284	0	0	453
20	9,367	6,736	12,414	4,689	0	0	524
21	9,023	6,376	9,847	7,656	0	0	539
22	7,908	5,231	13,695	5,881	0	0	530
23	9,151	6,423	13,127	5,204	0	0	570
24	9,656	6,938	7,736	5,137	0	0	612
25	10,505	7,242	10,713	4,183	0	0	606
26	10,300	7,081	11,037	4,993	0	0	609
27	8,861	5,626	12,853	6,774	0	0	624
28	9,267	6,145	9,351	7,926	0	0	628
29	7,628	4,446	11,511	3,870	0	0	615
30	9,947	6,718	14,485	6,792	0	0	870
Total	292,821	210,285	174,392	89,832	2,179	-31	13,875

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

April 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Mar 31	327.96	20,651					
1	327.96	20,651	0	0	0	0	0
2	327.95	20,646	-5	0	0	0	-5
3	327.95	20,646	0	0	0	0	0
4	327.93	20,637	-9	0	0	0	-9
5	327.94	20,641	4	2	0	0	0
6	327.94	20,641	0	0	0	0	0
7	327.94	20,641	0	0	0	0	0
8	327.92	20,632	-9	0	0	0	-9
9	327.92	20,632	0	0	0	0	0
10	327.92	20,632	0	0	0	0	0
11	327.92	20,632	0	0	0	0	0
12	327.92	20,632	0	0	0	0	0
13	327.92	20,632	0	0	0	0	0
14	327.92	20,632	0	0	0	0	0
15	327.88	20,613	-19	0	0	0	-19
16	327.84	20,594	-19	0	0	0	-19
17	327.82	20,585	-9	0	0	0	-9
18	327.82	20,585	0	0	0	0	0
19	327.81	20,580	-5	0	0	0	-5
20	327.80	20,576	-4	0	0	0	-4
21	327.80	20,576	0	0	0	0	0
22	327.79	20,571	-5	0	0	0	-5
23	327.79	20,571	0	0	0	0	0
24	327.76	20,557	-14	0	0	0	-14
25	327.76	20,557	0	0	0	0	0
26	327.74	20,547	-10	0	0	0	-10
27	327.72	20,538	-9	0	0	0	-9
28	327.72	20,538	0	0	0	0	0
29	327.71	20,533	-5	0	0	0	-5
30	327.70	20,529	-4	0	0	0	-4
Total			-122	2	0	0	-126
Mean cfs			---	0	0	0	---
Acre-feet			-122	4	0	0	-126

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

April 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Mar 31	602.65	829			0	0	
1	Not Observed			0	0	0	
2	Not Observed			0	0	0	
3	Not Observed			2	0	2	
4	Not Observed			2	0	2	
5	Not Observed			2	0	2	
6	Not Observed			2	0	2	
7	Not Observed			2	0	2	
8	Not Observed			2	0	2	
9	Not Observed			2	0	2	
10	Not Observed			2	0	2	
11	Not Observed			2	0	2	
12	602.60	826	-3	0	0	2	
13	Not Observed			2	0	2	
14	Not Observed			2	0	2	
15	602.60	826	0	2	0	2	
16	Not Observed			2	0	2	
17	Not Observed			2	0	2	
18	Not Observed			2	0	2	
19	602.60	826	0	2	0	2	
20	Not Observed			2	0	2	
21	Not Observed			2	0	2	
22	Not Observed			2	0	2	
23	Not Observed			2	0	2	
24	Not Observed			2	0	2	
25	Not Observed			2	0	2	
26	602.60	826	0	2	0	2	
27	Not Observed			2	0	2	
28	Not Observed			2	0	2	
29	Not Observed			2	0	2	
30	Not Observed			2	0	2	
Total			-3	54	0	56	---
Mean cfs			---	2	0	2	---
Acre-feet			-3	107	0	110	0

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries				
	Beginning and Ending		No.			USBR	Transfer	DWR Recreation	USBR Recreation	
	No.	Structure	Mile							
2B	12	Check No. 12	66.71		106,874					
3A		San Luis Reservoir			Department of Parks and Recreation	1	12,225	1		
					San Felipe Division Santa Clara Water District	12,225				
					San Felipe Division San Benito Water District	1,650				
3	13	O'Neill Forebay	70.85	Department of Parks and Recreation	16	733	0	9	7	
				Cattle Program				0	0	
				Department of Fish & Game	45			25	20	
			70.91	San Luis Water District	733	733	0	34	27	
				(Floodwater Inflow)	0					
			Reach 3 Subtotal:		794	733	0	34	27	
			86.73	Check No. 13						
				Dos Amigos Pumping Plant						
4	14		89.03	Thru 94.06	San Luis Water District	4,707	4,707	0	0	
				89.66	Pacheco Water District	1,045				
				89.67						
				89.68	Panoche Water District	32				
				89.70	City of Dos Palos	118				
			Check No. 14	95.06			3,112	0	0	
			98.15	Thru 104.20	San Luis Water District	404				
				96.15	Panoche Water District	3,112				
				102.64	(Floodwater Inflow)	0				
				102.64	Broadview Water District	2				
				105.22	Westlands Water District	8,569				
	15		Check No.15	108.50			8,569	0	0	
					San Felipe Division Total:	13,875				
					Pacheco Water District Total:	1,045				
					Broadview Water District Total:	2				
					City of Dos Palos Total:	118				
					SLWD Reach 4 Subtotal:	5,111				
					Panoche Water District Total:	3,144				
					SLWD Total:	5,844				
					Westlands WD Reach 4 Subtotal:	8,569				

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2002

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries						
	Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation			
	No.	Structure	Mile								
5	16		110.52	(Reverse flow, Kings River)	0	10,752	1				
			Thru	Westlands Water District	10,752						
			122.05	Department of Fish and Game	1						
		Check No. 16	122.07								
	17		124.18	Westlands Water District	8,020	8,020					
			Thru								
		Check No. 17	132.74								
	18		133.81	Westlands Water District	11,962	11,962					
			Thru								
			142.61								
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	7,823	7,823					
			143.16	City of Coalinga	472						
		Check No. 18	143.23								
6	19			Westlands WD Reach 5 Subtotal:	38,557	38,557	0	0			
			145.26	Westlands Water District	16,182	16,182					
			Thru								
			151.19								
	Check No. 19	155.64				16,182	0	0			
7	20		156.34	City of Huron	124	124					
			156.40	Westlands Water District	8,682	8,682					
			Thru								
			163.69								
		Check No. 20	164.69			209					
	21		164.79	City of Avenal	209						
			167.04	Westlands Water District	3,667						
			Thru								
			171.67								
	Check No. 21	172.40			213,326						
				Reach 7 Total:	12,682						
				Westlands WD Total:	75,657						
				City of Coalinga Total:	472						
				City of Huron Total:	124						
				City of Avenal Total:	209						
				Phase I Water Total:	0						
Total San Luis Field Division Deliveries:					100,553	100,490	0	36			
								27			

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations

April 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Mar 31	28,917								
1	28,246	-671	0	5,978	86	55	1,407	5,499	731
2	28,094	-152	0	6,892	98	62	1,162	5,779	132
3	28,675	581	0	6,658	99	63	1,165	5,071	33
4	27,497	-1,178	0	5,318	125	72	1,340	4,674	299
5	28,019	522	0	6,100	75	82	1,161	4,639	120
6	28,013	-6	0	6,090	75	72	1,093	5,055	202
7	28,943	930	0	6,230	99	71	1,189	4,791	388
8	29,423	480	0	5,197	143	47	1,064	3,898	197
9	29,934	511	0	5,510	119	58	1,154	3,884	-37
10	29,854	-80	0	4,632	120	59	1,058	3,548	113
11	29,370	-484	0	3,953	154	80	1,284	2,819	140
12	29,258	-112	0	4,376	155	75	1,287	3,099	184
13	29,256	-2	0	3,942	79	56	1,317	2,591	100
14	29,236	-20	0	4,541	88	52	1,243	3,315	147
15	29,648	412	0	3,912	45	38	1,169	2,488	36
16	28,927	-721	0	3,633	116	41	1,375	2,535	71
17	28,253	-674	0	4,155	117	41	1,380	2,885	-72
18	29,188	935	0	4,809	108	42	1,388	2,751	-49
19	29,340	152	0	4,474	109	43	1,479	2,795	29
20	29,614	274	0	4,722	71	30	1,467	3,008	-8
21	29,032	-582	0	4,549	40	45	1,374	3,546	162
22	28,852	-180	0	3,987	149	26	1,196	2,551	-156
23	29,541	689	0	4,614	122	44	1,486	2,502	-112
24	28,654	-887	0	4,868	123	58	1,345	3,582	-208
25	28,752	98	0	5,296	135	59	1,352	3,560	-141
26	29,304	552	0	5,193	126	59	1,354	3,441	66
27	29,161	-143	0	4,467	105	75	1,288	3,223	151
28	29,280	119	0	4,672	74	39	1,391	3,596	488
29	28,780	-500	0	3,846	126	21	1,254	2,909	212
30	29,405	625	0	5,015	82	20	1,329	3,518	249
Total		488	0	147,629	3,163	1,585	38,551	107,550	3,466
Mean cfs		- - -	0	4,921	105	53	1,285	3,585	116
Acre-feet		488	0	292,821	6,274	3,144	76,465	213,326	6,876

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF @ Lat.7L) and Flood Water (0 AF) is included in the gain or loss.

3/ Includes 1,044 AF AG & 1 AF M&I to Pacheco W.D. and 118 AF to the City of Dos Palos.

4/ Includes 124 AF to the City of Huron, 209 AF to the City of Avenal, 472 AF to the City of Coalinga, 0 AF Phase I Water @ Lat. 13R, 1 AF to F&G @ WWD Lateral 4L, and 2 AF to Broadview W.D.

Table 21. San Joaquin Field Division Plant Data

(in acre-feet)

April 2002

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	263	263	57	54	61	5,419	5,620	5,348	5,092
2	346	346	54	50	56	5,510	5,591	5,245	5,098
3	346	346	47	42	48	5,647	5,356	5,125	5,047
4	359	359	52	49	55	5,615	5,518	5,283	5,071
5	357	357	48	44	50	5,398	5,564	5,347	5,313
6	338	338	47	43	49	5,995	5,730	5,550	5,404
7	149	149	53	50	56	5,563	5,445	5,275	5,130
8	244	244	52	48	53	4,251	4,348	4,179	4,005
9	240	240	77	73	79	4,466	4,439	4,131	4,061
10	217	217	112	105	110	4,303	4,191	4,083	3,942
11	268	268	113	106	111	2,826	2,576	2,422	2,394
12	236	236	100	91	97	4,399	4,132	3,975	3,792
13	185	185	72	70	76	4,672	4,679	4,459	4,354
14	104	104	69	62	69	6,240	6,216	6,099	6,005
15	139	139	71	69	75	4,251	4,400	4,101	3,951
16	251	251	74	68	74	4,303	4,052	3,872	3,733
17	263	263	74	70	77	4,513	4,330	4,078	3,897
18	343	343	105	98	104	4,356	4,463	4,027	3,897
19	383	383	90	85	91	4,483	4,451	4,223	4,088
20	279	279	100	94	100	4,739	4,656	4,254	4,158
21	168	168	100	95	101	6,115	6,140	6,025	5,946
22	285	285	123	118	120	4,389	4,417	4,221	4,031
23	348	348	116	109	113	4,240	4,271	3,995	3,927
24	379	379	122	116	127	5,647	5,288	5,031	4,877
25	335	335	85	80	85	5,431	5,214	4,971	4,853
26	358	358	123	117	119	5,255	4,907	5,037	4,856
27	385	385	136	129	137	5,134	5,333	5,277	5,130
28	271	271	82	77	85	6,069	6,175	6,117	6,016
29	214	214	99	92	94	5,308	5,454	5,278	5,071
30	256	256	124	119	121	5,795	5,429	5,243	5,063
Total	8,309	8,309	2,577	2,423	2,593	150,332	148,385	142,271	138,202

Table 22a. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	USBR	EWA 2:1 Ex-change Water	Article 21 Water	KWB Recovery	215 Ex-change Water		
	No.	Structure	Mile										
7	21	Check No. 21	172.40		213,326								
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	411	385 4,490 247 196 4 373 1,236 413		26 397 338 1,150		1,150			
				County of Kings TL - A	0								
				TLBWS D TL-A	6,375								
				175.18 DRWD - 1	247								
8D			177.54 DRWD - 1B	196			1,555 373 1,469	603 1,363 2,306		2,306			
				180.64 TLBWS D - C	0								
				180.65 DRWD - 1A	4								
				182.99 DRWD - 2	3,894								
31A			183.00 Tulare Lake Basin WSD TL - B	5,384			770 1,807	603 0 0	1,363 25 0	25			
				184.63 Coastal Branch	8,309								
				184.78 Dudley Ridge Water Dist. DRWD - 3	438								
				Dudley Ridge Reach 8D Total:	4,779	1,233	0	1,555	603	1,363	25	0	
8D			Tulare Lake Basin WSD Total: Check No. 22	11,759		5,726	0	770	1,807	0	3,456	0	
				184.82									
9	23		189.69 Kern County Water Agency Lost Hills Water Dist. - 1	3,009		1,926 577 153 535	653	430					
				191.18 Kern County Water Agency Lost Hills Water Dist. - 2	577								
				194.22 Kern County Water Agency Lost Hills Water Dist. - 3	153								
				196.40 Kern County Water Agency Berrenda Mesa - 2	0								
				196.75 Kern County Water Agency Lost Hills Water Dist. - 4	535								
				K.C.W.A. Reach 9 Subtotal:	4,274	3,191	0	653	430	0	0	0	
10A	24		Check No. 23	197.05									
				201.24 Kern County Water Agency Lost Hills Water Dist. - 7	491	491 311 2,212		1,049	2,684	6,500	1/ 1,973		
				202.05 Kern County Water Agency Lost Hills Water Dist. - 5	311								
				204.69 Kern County Water Agency Lost Hills Water Dist. - 6	0								
			Check No. 24	205.26 Kern County Water Agency Lost Hills Water Dist. - 8	0		72	1,049	2,684	6,500	1/ 1,973		
				207.94									
	25		209.71 Kern County Water Agency Belridge Water Storage Dist. - 1A	2,212			72	1,049	2,684	6,500	1/ 1,973		
				209.78 Kern National Wildlife Refuge USBR BV-1B	0								
			209.80 Kern County Water Agency Buena Vista WSD 1B	Kern County Water Agency Buena Vista WSD 1B	72		72	1,049	2,684	6,500	1/ 1,973		
				KCWA Semitropic WSD	12,931								
				KCWA Semitropic WSD Penstocks	443								
				USBR Total:	0		0	0	0	0	0	1	
				K.C.W.A. Reach 10A Subtotal:	16,460	4,254	0	1,049	2,684	6,500	0	1,973	

1/ Alameda County FCWCD - Zone 7: 1,087 AF of Article 21 Water and 803 AF of EWA Exchange water. Alameda County WD: 83 AF of Agricultural Entitlement water. Stored in Semitropic Water Storage District.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries								
	Beginning and Ending					Entitle-ment	CVC Wheeling	EWA 2:1 Ex-change Water	Article 21 Water	KWB Recov-ery	215 Ex-change Water	Other		
	No.	Structure	Mile											
11B	25		210.75	Kern County Water Agency Belridge - 2	0	13	764	2,183	4,234					
			214.11	Kern County Water Agency Belridge - 3	13									
			216.62	Kern County Water Agency Belridge - 4	0									
			217.13	Kern County Water Agency Belridge - 5	8,536									
				Kern County Water Agency Belridge - 5D	122									
		Check No. 25	217.79											
				K.C.W.A. Reach 11B Subtotal:	8,671	1,490	0	764	2,183	4,234				
12D	26		219.58	Kern County Water Agency Belridge - 6	0	9	4	2						
				Kern County Water Agency West Kern - 3	15									
		Check No. 26	224.92											
12E	27		230.37	Kern County Water Agency Buena Vista - 6	0	7	179	887						
				Check No. 27	231.73									
			235.75	Kern County Water Agency Buena Vista - 2	1,073		21	454	4,390					
				Kern County WA CVC	4,865									
				Tri Valley	624									
				Kern Tulare	572									
				Rag Gulch	228									
				Fresno Co.	2,898									
				Hills Valley	1,826									
				Hacienda DWR Wells	0									
		Check No. 28	238.11	1/ Arvin Edison Total:	6,148	0	6,148	0	0	0				
				Reach 12E Subtotal:	5,938	28	0	633	5,277	0				
13B	29		238.19	Kern Water Bank Inflow	0	562	204	321				2/ 325		
				Kern Water Bank Outflow	2,676									
			241.02	Kern River Intertie (inflow)	0									
			242.85	KCWA Buena Vista WSD - 7	0									
				KCWA Buena Vista WSD - 5	1,087									
			243.09	Kern County Water Agency Buena Vista - 3	974									
		Check No. 29	244.54	Buena Vista WSD	0									
			249.85	Kern County Water Agency Buena Vista - 4	0									
				Buena Vista Pumping Plant	250.99									
				K.C.W.A. Reach 13B Subtotal:	4,737	1,536	0	204	2,672	0		325		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	974	13	24	31					
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	78									

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Dudley Ridge WD's Article 21 Water stored in the Kern Water Bank.

Table 22c. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	EWA 2:1 Ex-change Water	Article 21 Water	KWB Recovery	215 Ex-change Water	Other		
	No.	Structure	Mile										
14A	31	Check No. 31	256.14	Kern County Water Agency Wheeler Ridge-Maricopa - 3 Kern County Water Agency Wheeler Ridge-Maricopa - 4	295 677	40 91	50 115	89 205	116 266		0		
	32		258.61										
			260.44										
			Check No. 32										
				KCWA Reach 14A Subtotal:	1,050								
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5 Kern County Water Agency Wheeler Ridge-Maricopa - 6	2,189 435	720 58	371 74	237 132	861 171		0		
			266.91										
			Check No. 33										
	34		267.36	Kern County Water Agency Wheeler Ridge-Maricopa - 7	1,471	198	249	445	579		0		
			270.24										
			Check No. 34										
				Reach 14B Total:	4,095								
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8 Kern County Water Agency Wheeler Ridge-Maricopa - 9	1,375 1,106	185 146	233 190	416 335	541 435		0		
			276.09										
				Reach 14C Total:	2,481								
15A	36	Teerink Pumping Plant	278.13	Kern County Water Agency Wheeler Ridge-Maricopa - 9A Kern County Water Agency Wheeler Ridge-Maricopa - 10	148,385 240 3,768	240	3,768	0	0	0	0		
			279.02										
			280.06										
				Reach 15-A Total:	4,008								
16A	37	Chrisman Pumping Plant	280.36	Kern County Water Agency Wheeler Ridge-Maricopa - 11	142,271	12	12	0	0	0	0		
			282.06										
			Check No. 37										
	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	12	91	91	0	0	0	0		
			286.39										
			287.06										
	39		287.09	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	108	108	108	0	0	0	0		
			287.62										
	40	Edmonston Pumping Plant	290.21	Kern County Water Agency Wheeler Ridge-Maricopa - 14 Kern County Water Agency Wheeler Ridge-Maricopa - 15 Kern County Water Agency Tehachapi Cummings CWD	778 47 731	509	97	125	0	0	0		
			291.26										
			293.07										
17E				K.C.W.A. Reach 16A Subtotal:	1,767	1,545	97	125	0	0	0		
					138,202								

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diver-sions	Deliveries							
	Beginning and Ending					Entitle-ment	EWA 2:1 Ex-change Water	Article 21 Water	KWB Recov-ery	215 Ex-change Water	Other		
	No.	Structure	Mile										
31A	C-1	Coastal Branch Control	0.02		8,309								
		Las Perillas Pumping Plant	1.16		8,309								
	C-2		3.79	Green Valley Water District	0								
		Badger Hill Pumping Plant	4.27		8,309								
	C-3	Coastal Check No. 3	7.21										
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0								
		Coastal Check No. 4	9.34										
	C-5	Coastal Check No. 5	12.20										
	C-6		13.30	Kern County Water Agency Berrenda Mesa - 3	650		650	696	943				
			14.83	Kern County Water Agency Berrenda Mesa - 1	5,048								
				Kern County Water Agency Berrenda Mesa - PO	0								
		Devil's Den Pumping Plant	14.86		2,577								
				K.C.W.A. Reach 31A Subtotal:	5,698		4,059	696	943	0	0	0	
				K.C.W.A. Total:	59,179		21,559	5,391	16,197	13,734	0	2,298	
33A	C-7	Bluestone Pumping Plant	19.05		2,423								
	C-8	Polonio Pass Pumping Plant	26.54		2,593								
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant									
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	2,219		1,882	347	337				
		Tank Site 2	58.63	Central Coast:	0								
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	347								
		Energy Dissipater	78.12										
		Lopez T.O.	85.86	SLOCFC & WCD	0								
35	C-12			CCWA Total:	2,229			2,229	0	0	0	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0								
		Santa Maria T.O.	107.43	SBCFC & WCD	0								
		So. Cal. Water T.O.	109.20	SBCFC & WCD	0								
38				SBCFC & WCD Total:	0			0	0	0	0	0	
		Tank Site 5	115.42										

Table 24. Southern Field Division Plant Data

(in acre-feet)

April 2002

Date	West Branch					East Branch								Devil Canyon Powerplant Generation
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant				
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume		
28	1	3,091	3,088	0	5,406	1,597	1,969	0	43	2,132	2,210	0	0	1,613
	2	3,094	3,224	0	4,646	1,606	1,938	0	63	1,808	1,916	0	0	1,828
	3	3,100	3,219	0	5,538	757	1,881	0	55	1,806	1,855	0	0	2,011
	4	3,258	3,197	0	5,447	548	1,708	0	66	1,633	1,571	0	0	1,967
	5	3,305	3,250	0	4,833	877	1,930	0	65	1,949	1,810	0	0	2,008
	6	3,305	3,210	0	348	1,543	2,055	0	40	1,903	1,856	0	0	1,967
	7	2,970	1,655	0	2,963	2,141	2,328	0	0	1,925	1,704	0	0	1,779
	8	1,809	1,844	0	5,353	1,814	2,011	0	193	2,102	2,105	0	0	2,065
	9	1,660	1,804	0	3,863	2,281	2,323	0	68	2,218	2,305	0	0	1,946
	10	1,703	1,795	0	5,172	702	2,256	0	0	2,049	1,993	0	0	1,555
	11	1,334	1,418	0	4,402	741	968	0	16	1,033	879	0	0	1,669
	12	1,960	2,443	0	3,021	1,316	1,758	0	125	1,725	1,819	0	0	1,435
	13	2,134	2,165	0	1,386	0	2,098	0	154	1,999	1,911	0	0	1,858
	14	3,921	2,074	0	675	4,019	2,072	0	0	1,696	1,573	0	0	1,791
	15	1,915	2,145	0	4,266	1,770	1,676	0	356	2,027	2,363	0	0	1,682
	16	1,859	2,159	0	4,224	1,949	1,900	0	0	1,591	1,559	0	0	1,848
	17	1,850	2,074	0	5,541	0	2,056	0	0	1,850	1,772	0	0	1,762
	18	1,853	2,002	0	3,511	1,745	2,019	0	0	1,761	1,734	0	0	1,856
	19	1,888	2,033	0	6,149	1,070	2,153	0	52	1,778	1,759	0	0	1,980
	20	2,241	2,041	0	2,133	2,837	2,010	0	0	1,856	1,782	0	0	1,520
	21	3,423	2,168	0	1,904	4,157	2,485	0	0	2,022	1,883	0	0	1,719
	22	1,880	1,879	0	8,871	1,974	1,851	0	298	2,021	2,181	0	0	1,870
	23	1,794	2,220	0	5,731	1,431	2,136	0	43	2,129	2,108	0	0	1,810
	24	2,725	3,138	0	5,437	1,695	2,151	0	0	1,720	1,970	0	0	1,916
	25	2,734	3,164	0	6,598	1,820	2,127	0	0	1,890	1,746	0	0	1,889
	26	2,726	3,155	0	6,905	2,349	2,127	0	0	1,918	1,932	0	0	1,874
	27	3,230	3,024	0	365	2,738	1,910	0	43	1,974	1,899	0	0	1,876
	28	3,838	2,892	0	2,245	4,834	2,237	0	0	1,791	1,639	0	0	2,016
	29	2,756	3,013	0	6,438	2,139	2,312	0	0	2,138	2,163	0	0	1,872
	30	2,810	3,050	0	7,471	2,239	2,301	0	0	2,061	2,134	0	0	2,082
	Total	76,166	74,543	0	130,842	54,689	60,746	0	1,680	56,505	56,131	0	0	55,064

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek	
Mar 31	2575.88	167,179								
1	2575.31	166,451	-728	1,597	3,088	26	5,406	0	24	-9
2	2575.40	166,566	115	1,606	3,224	26	4,646	0	52	-43
3	2574.11	164,928	-1,638	757	3,219	26	5,538	0	52	-50
4	2572.66	163,099	-1,829	548	3,197	26	5,447	0	51	-102
5	2572.01	162,283	-816	877	3,250	26	4,833	0	51	-85
6	2575.40	166,566	4,283	1,543	3,210	26	348	0	51	-97
7	2576.02	167,357	791	2,141	1,655	26	2,963	0	51	-17
8	2574.57	165,511	-1,846	1,814	1,844	26	5,353	0	51	-126
9	2574.70	165,676	165	2,281	1,804	25	3,863	0	51	-31
10	2572.54	162,948	-2,728	702	1,795	24	5,172	0	51	-26
11	2570.69	160,635	-2,313	741	1,418	23	4,402	0	51	-42
12	2571.20	161,271	636	1,316	2,443	23	3,021	0	51	-74
13	2571.95	162,208	937	0	2,165	22	1,386	1	51	188
14	2576.24	167,639	5,431	4,019	2,074	22	675	0	51	42
15	2575.82	167,102	-537	1,770	2,145	21	4,266	0	51	-156
16	2575.68	166,923	-179	1,949	2,159	22	4,224	0	51	-34
17	2572.57	162,986	-3,937	0	2,074	22	5,541	0	51	-441
18	2572.75	163,212	226	1,745	2,002	23	3,511	0	51	18
19	2570.17	159,989	-3,223	1,070	2,033	22	6,149	0	51	-148
20	2572.36	162,722	2,733	2,837	2,041	22	2,133	0	51	17
21	2575.80	167,076	4,354	4,157	2,168	22	1,904	0	51	-38
22	2571.92	162,170	-4,906	1,974	1,879	23	8,871	0	51	140
23	2570.17	159,989	-2,181	1,431	2,220	23	5,731	1	51	-72
24	2569.59	159,270	-719	1,695	3,138	24	5,437	0	51	-88
25	2568.18	157,531	-1,739	1,820	3,164	25	6,598	0	51	-99
26	2566.88	155,939	-1,592	2,349	3,155	25	6,905	0	63	-153
27	2571.17	161,233	5,294	2,738	3,024	29	365	0	63	-69
28	2575.42	166,592	5,359	4,834	2,892	26	2,245	0	63	-85
29	2574.26	165,118	-1,474	2,139	3,013	29	6,438	0	63	-154
30	2572.54	162,948	-2,170	2,239	3,050	28	7,471	0	63	47
Total				-4,231	54,689	74,543	733	130,842	2	1,565
										-1,787

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Mar 31	1511.32	19,696								
1	1512.57	20,187	491	5,406	1	1,597	1	3,317	-1	
2	1511.49	19,762	-425	4,646	1	1,606	1	3,463	-2	
3	1511.75	19,864	102	5,538	1	757	1	4,679	0	
4	1513.91	20,720	856	5,447	1	548	1	4,043	0	
5	1516.36	21,716	996	4,833	1	877	1	2,954	-6	
6	1507.02	18,055	-3,661	348	1	1,543	1	2,468	2	
7	1509.22	18,885	830	2,963	2	2,141	2	0	8	
8	1510.90	19,532	647	5,353	1	1,814	1	2,888	-4	
9	1506.21	17,755	-1,777	3,863	1	2,281	1	3,360	1	
10	1509.87	19,134	1,379	5,172	1	702	1	3,089	-2	
11	1511.69	19,840	706	4,402	1	741	1	2,953	-2	
12	1515.82	21,494	1,654	3,021	1	1,316	1	0	-51	
13	1519.14	22,876	1,382	1,386	0	0	0	0	-4	
14	1510.87	19,521	-3,355	675	0	4,019	0	0	-11	
15	1508.89	18,760	-761	4,266	1	1,770	1	3,253	-4	
16	1506.58	17,892	-868	4,224	1	1,949	1	3,143	0	
17	1512.54	20,175	2,283	5,541	1	0	1	3,258	0	
18	1511.82	19,891	-284	3,511	1	1,745	1	2,049	-1	
19	1519.83	23,168	3,277	6,149	1	1,070	1	1,801	-1	
20	1518.01	22,400	-768	2,133	1	2,837	1	0	-64	
21	1508.22	18,506	-3,894	1,904	1	4,157	1	1,638	-3	
22	1518.34	22,539	4,033	8,871	0	1,974	0	2,865	1	
23	1521.31	23,802	1,263	5,731	0	1,431	0	3,035	-2	
24	1522.89	24,487	685	5,437	0	1,695	0	3,057	0	
25	1526.79	26,215	1,728	6,598	0	1,820	0	3,051	1	
26	1530.00	27,681	1,466	6,905	0	2,349	0	3,093	3	
27	1524.70	25,282	-2,399	365	1	2,738	1	0	-26	
28	1518.77	22,719	-2,563	2,245	0	4,834	0	0	26	
29	1518.99	22,812	93	6,438	0	2,139	0	4,206	0	
30	1521.72	23,979	1,167	7,471	0	2,239	0	4,066	1	
Total			4,283	130,842	21	54,689	21	71,729	-141	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Mar 31	1486.91	264,445								
1	1487.42	265,461	1,016	1	3,317	3	2,203	20	-82	
2	1488.05	266,718	1,257	1	3,463	2	2,216	20	27	
3	1489.19	269,002	2,284	1	4,679	3	2,269	20	-110	
4	1490.09	270,810	1,808	1	4,043	3	2,252	0	13	
5	1490.49	271,616	806	1	2,954	3	2,107	0	-45	
6	1490.66	271,959	343	1	2,468	3	2,139	0	10	
7	1489.70	270,027	-1,932	2	0	3	2,031	0	94	
8	1490.11	270,851	824	1	2,890	3	2,129	0	59	
9	1490.71	272,059	1,208	1	3,360	3	2,181	0	25	
10	1491.13	272,908	849	1	3,089	2	2,291	0	48	
11	1491.34	273,332	424	1	2,954	2	2,394	0	-139	
12	1490.13	270,891	-2,441	1	0	2	2,460	0	16	
13	1488.99	268,601	-2,290	1	0	2	2,367	0	74	
14	1487.79	266,199	-2,402	0	0	1	2,440	0	37	
15	1488.20	267,018	819	1	3,254	1	2,363	0	-74	
16	1488.57	267,759	741	0	3,144	1	2,348	0	-56	
17	1489.07	268,761	1,002	1	3,256	2	2,325	0	68	
18	1488.87	268,360	-401	0	2,050	2	2,352	0	-101	
19	1488.45	267,518	-842	1	1,800	2	2,574	0	-71	
20	1487.16	264,943	-2,575	0	0	2	2,570	0	-7	
21	1486.71	264,047	-896	1	1,640	2	2,667	0	128	
22	1486.77	264,167	120	0	2,864	2	2,605	0	-141	
23	1486.89	264,405	238	1	3,035	1	2,742	0	-57	
24	1487.06	264,744	339	0	3,056	1	2,653	0	-65	
25	1487.27	265,162	418	1	3,050	1	2,649	0	15	
26	1487.43	265,481	319	1	3,091	1	2,670	0	-104	
27	1486.17	262,975	-2,506	0	0	2	2,561	0	53	
28	1484.91	260,483	-2,492	0	0	1	2,549	0	56	
29	1485.74	262,123	1,640	0	4,206	1	2,586	0	19	
30	1486.37	263,372	1,249	0	4,066	1	2,651	23	-144	
Total				-1,073	21	71,729	58	72,344	83	-454

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Local	EWA 2:1 Exchange Water	Article 21 Water		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		76,166							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved		2					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		74,543							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2		2					
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
29J	W4	Castaic Power Plant	25.82	(54,689 AF pumpback)	130,842		32					
		Elderberry Forebay										
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	32		32		21,283	8,247		
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	15,948							
				MWD - 132"	53,505							
				Castaic Lake WA - T1	1,493							
				Castaic Lake WA	1,212							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	83							
				Reach 30 Subtotal:	72,344		42,502	32	0	21,283	8,527	
	W6	Castaic Lagoon		Recreation to Lagoon	0							
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
				Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel					
Mar 31	3351.88	71,958												
1	3352.61	72,657	699	2,210	0	2	4	0	1,613	0	0	104	4	
2	3352.61	72,657	0	1,916	0	2	5	0	1,828	0	1	-84	4	
3	3352.49	72,542	-115	1,855	0	2	5	0	2,011	0	0	44	4	
4	3352.08	72,149	-393	1,571	0	2	5	0	1,967	0	1	7	4	
5	3351.92	71,997	-152	1,810	0	2	6	0	2,008	0	0	50	4	
6	3351.73	71,815	-182	1,856	0	2	5	0	1,967	0	1	-67	4	
7	3351.73	71,815	0	1,704	0	2	4	0	1,779	0	0	77	4	
8	3351.73	71,815	0	2,105	0	2	5	0	2,065	0	1	-36	4	
9	3352.16	72,226	411	2,305	0	2	4	0	1,946	0	0	54	4	
10	3352.63	72,676	450	1,993	0	2	5	0	1,555	0	0	15	4	
11	3351.73	71,815	-861	879	0	2	4	0	1,669	0	0	-69	2	
12	3352.20	72,264	449	1,819	0	2	4	0	1,435	0	1	68	2	
13	3352.20	72,264	0	1,911	0	2	4	0	1,858	0	0	-51	2	
14	3351.95	72,025	-239	1,573	0	1	4	0	1,791	0	1	-17	2	
15	3352.64	72,686	661	2,363	0	1	4	0	1,682	0	0	-17	2	
16	3352.42	72,475	-211	1,559	0	2	5	0	1,848	0	1	82	2	
17	3352.34	72,398	-77	1,772	0	2	4	0	1,762	0	0	-85	2	
18	3352.20	72,264	-134	1,734	0	2	4	0	1,856	0	0	-10	2	
19	3352.02	72,092	-172	1,759	0	2	4	0	1,980	0	0	51	2	
20	3352.23	72,293	201	1,782	0	2	4	0	1,520	0	1	-58	2	
21	3352.28	72,341	48	1,883	0	1	5	0	1,719	0	0	-112	2	
22	3352.72	72,762	421	2,181	0	1	4	0	1,870	0	1	114	2	
23	3352.96	72,993	231	2,108	0	1	3	0	1,810	0	0	-65	2	
24	3353.04	73,070	77	1,970	0	2	3	0	1,916	0	1	25	2	
25	3352.81	72,849	-221	1,746	0	2	3	0	1,889	0	0	-77	2	
26	3352.95	72,983	134	1,932	0	2	2	1	1,874	0	1	78	2	
27	3352.92	72,955	-28	1,899	0	2	2	1	1,876	0	0	-50	2	
28	3352.62	72,666	-289	1,639	0	2	2	1	2,016	0	0	89	2	
29	3352.93	72,964	298	2,163	0	2	2	1	1,872	0	0	8	2	
30	3352.96	72,993	29	2,134	0	1	2	1	2,082	0	0	-21	1	
Total				1,035	56,131	0	54	117	5	55,064	0	11	47	79

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

April 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Mar 31	1585.70	121,610				
1	1585.69	121,587	-23		11	
2	1585.66	121,520	-67		10	
3	1585.65	121,497	-23		10	
4	1585.71	121,633	136		9	
5	1585.55	121,272	-361		135	
6	1585.42	120,979	-293		288	
7	1585.32	120,754	-225		275	
8	1585.19	120,462	-292		287	
9	1585.05	120,147	-315		322	
10	1584.98	119,990	-157		311	
11	1584.88	119,766	-224		286	
12	1584.72	119,407	-359		288	
13	1584.61	119,161	-246		287	
14	1584.48	118,870	-291		287	
15	1584.30	118,468	-402		288	
16	1584.24	118,334	-134		109	
17	1584.24	118,334	0		10	
18	1584.25	118,357	23		55	
19	1584.15	118,133	-224		99	
20	1584.07	117,955	-178		111	
21	1584.06	117,933	-22		128	
22	1584.04	117,888	-45		130	
23	1583.86	117,487	-401		187	
24	1583.88	117,532	45		124	
25	1583.77	117,287	-245		128	
26	1583.69	117,109	-178		104	
27	1583.65	117,020	-89		90	
28	1583.64	116,998	-22		69	
29	1583.59	116,887	-111		107	
30	1583.58	116,865	-22		141	
Total			-4,745	1,209	4,686	-1,268

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Local	EWA 2:1 Exchange Water	Article 21 Water		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		138,202							
	41		298.65		Kern County Water Agency Tej.-Cas		Stub					
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 1,680 AF flow down Cottonwood Chute)		60,746	10	1/ 1,255	1,265	0		
			308.05	Antelope Valley-East Kern WA		0						
		Check No. 43	309.70									
	44		311.84	LADWP Connection		0						
			313.50	AVEK 245th Street West		0						
		Check No. 44	314.81									
	45		314.93	AVEK 235th Street West		10						
			315.57	AVEK 225th Street West		0						
		Check No. 45	319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont		1,255						
		Check No. 46	323.84									
				Reach 19 Total:		1,265						
20A	47	Check No. 47	326.77				81	2,402	110	1,443		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon		81						
			329.65	Antelope Valley-East Kern WA 120th Street West		Removed						
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)		2,402						
			339.68	Antelope Valley-East Kern WA		0						
		Check No. 50	341.51									
20B	51	Check No. 51	342.07				1,443	121	26	72		
	52		342.80	Antelope Valley-East Kern WA 30th Street West		Not in Use						
		Check No. 52	343.74									
	53		346.98	PWD Palmdale		1,443						
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant		121						
21		Check No. 53	348.17				322		26	72		
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.		0						
22A	58		356.93	Antelope Valley-East Kern WA		26			26	72		
			357.60	Antelope Valley-East Kern WA 96th Street East		72						
			357.72	Antelope Valley-East Kern WA East Side Treatment Plant		322						

1/ Includes 95 AF of AVEK entitlement water transferred to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

April 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Local	EWA 2:1 Exchange Water	Article 21 Water		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		56,505	139	79	5	161	95		
	59	Check No. 59	366.09									
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20	Mojave Water Agency Mojave River	0							
	64	Check No. 64	395.10									
	65	Check No. 65	400.32	Mojave Water Agency Morongo 24" and 42"	139	117	5	136	1,427	95		
	66		401.10		Mojave Water Agency Hesperia							
					0							
23	Check No. 66	403.41										
24	Mojave Siphon	405.48	Las Flores Ranch		79	117	5	136	1,427	95		
	Mojave Siphon Powerplant	405.65			56,131							
	Silverwood Lake	407.65	Crestline Lake Arrowhead Water Agency		117							
			Calif. State Park Silverwood Agency (Rec.)		5							
	San Bernardino Tunnel	411.46			55,064							
25			San Gorgonio Pass Water Agency		0							
26A	Devil Canyon Powerplant	412.73			55,064	14,762	2,287	136	1,427	95		
	Devil Canyon Afterbay Control Structures	412.88	MWD-SC Rialto		14,762							
			Desert Water Agency (MWD Wheeling Exchange)		2,448							
			San Gabriel Valley Water District		704							
			Coachella Valley WD (MWD Wheeling Exchange)		1,482							
			San Bernardino Valley MWD 24" and 72"		971							
			San Bernardino Valley MWD 48"		136							
			MWD (SBVMWD Exchange)		1,427							
28G	Santa Ana Valley Pipeline	425.46										
28H		433.06	MWD-SC Box Springs		6,151	6,151	26,423	285	3,341	95		
		440.05	MWD-SC Perris Bypass Pipeline		26,423							
28J	Lake Perris	442.00	MWD-SC 18"		285	1,026	3,341	34	34	95		
		443.44	MWD-SC 54"		1,026							
			MWD-SC 78"		3,341							
			Calif. State Park Lake Perris Recreation		34							
			MWD Total:		128,445	98,659	0	0	21,283	8,503		

Table 32. Water Quality At Selected SWP Locations

April 2002

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	43	99	79	86	83	81	82	81	82
Antimony	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.003	0.003	0.003
Beryllium	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Bromide	mg/l	<0.01	0.06	0.23	0.24	0.24	0.25	0.25	0.23	0.27
Calcium	mg/l	9	17	19	25	21	21	22	22	22
Carbon - Dissolved Organic	mg/l as C	NR	5.0	3.8	3.5	3.6	3.2	3.0	2.9	3.0
Carbon - Total Organic	mg/l as C	NR	6.4	4.6	4.9	5.1	4.3	4.4	4.0	4.4
Chloride	mg/l	<1	27	139	144	138	116	119	120	113
Chromium	mg/l	0.002	0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Copper	mg/l	<0.001	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.004
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	38	98	101	126	110	108	107	105	108
Iron	mg/l	<0.005	0.034	0.021	0.021	0.015	0.023	0.005	0.006	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	14	13	15	14	14	13	12	13
Manganese	mg/l	<0.005	0.023	0.010	<0.005	0.007	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.26	0.87	NR	NR	0.82	NR	1.07	0.73
Phosphorus-Ortho	mg/l as P	<0.01	0.09	0.08	NR	NR	0.08	NR	0.07	0.14
Phosphorus-Total	mg/l	<0.01	0.18	0.11	NR	NR	0.10	NR	0.10	0.09
Selenium	mg/l	<0.001	<0.001	<0.001	NR	0.001	NR	0.001	NR	0.001
Sodium	mg/l	4	30	48	62	54	55	56	55	57
Specific Conductance	µS/cm	91	337	466	552	513	515	518	505	531
Sulfate	mg/l	2	29	35	109	43	42	44	43	44
Total Dissolved Solids	mg/l	60	198	260	314	289	289	287	286	266
Turbidity	NTU	6	75	14	15	8	7	10	12	4
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

April 2002

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l			
	(Antioch) Daily Mean		Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	Contra Costa Canal Intake	
	Mean Daily	Monthly Average	md	md				md	14dm	md	14dm					
	Hi	Half													md	
38	1	3.24	1.07	10,477	10,477	13,593	0.34	1.17	0.19	0.19	0.24	0.25	0.48	0.98	0.57	46
	2	3.42	1.35	10,378	10,428	13,149	0.38	1.43	0.20	0.19	0.25	0.25	0.41	0.97	0.51	31
	3	3.38	1.40	9,430	10,095	13,193	0.39	1.44	0.22	0.19	0.25	0.25	0.41	0.97	0.52	41
	4	2.82	1.19	9,332	9,904	13,593	0.43	1.06	0.20	0.20	0.24	0.25	0.43	0.97	0.54	39
	5	2.44	0.99	10,172	9,958	13,318	0.33	0.87	0.19	0.19	0.24	0.24	0.41	0.97	0.52	41
	6	2.42	1.02	9,713	9,917	12,838	0.32	1.05	0.19	0.19	0.24	0.24	0.44	0.96	0.62	39
	7	2.28	0.88	9,293	9,828	12,926	0.33	1.09	0.19	0.19	0.24	0.24	0.43	0.99	0.64	39
	8	2.37	0.90	9,713	9,814	12,595	0.36	0.85	0.19	0.19	0.24	0.24	0.42	0.97	0.57	41
	9	2.22	0.75	9,628	9,793	13,018	0.36	0.72	0.20	0.19	0.23	0.24	0.38	0.93	0.58	39
	10	2.03	0.59	10,196	9,833	13,216	0.31	0.97	0.19	0.19	0.23	0.24	0.39	0.89	0.51	37
	11	2.17	0.62	10,373	9,882	12,905	0.31	1.14	0.19	0.19	0.24	0.24	0.40	0.85	0.49	37
	12	2.28	0.56	10,065	9,898	12,933	0.31	1.03	0.19	0.19	0.24	0.24	0.35	0.84	0.45	37
	13	2.32	0.57	10,357	9,933	12,865	0.32	0.95	0.19	0.19	0.24	0.24	0.34	0.82	0.44	39
	14	2.45	0.92	10,098	9,945	11,871	0.34	1.48	0.19	0.19	0.25	0.24	0.40	0.80	0.42	40
	15	3.24	1.06	14,070	10,220	12,572	0.40	2.05	0.22	0.20	0.27	0.24	0.34	0.76	0.28	38
	16	2.57	0.94	16,070	10,585	12,198	0.38	1.33	0.20	0.20	0.24	0.24	0.46	0.75	0.44	39
	17	2.92	1.00	16,249	10,919	12,154	0.40	1.45	0.21	0.20	0.25	0.24	0.32	0.74	0.40	39
	18	2.51	0.71	16,372	11,221	12,539	0.35	0.94	0.21	0.20	0.23	0.24	0.34	0.76	0.40	35
	19	2.20	0.60	16,761	11,513	11,941	0.31	0.75	0.20	0.20	0.23	0.24	0.33	0.71	0.42	39
	20	2.26	0.80	16,028	11,739	11,176	0.30	0.78	0.20	0.20	0.23	0.24	0.33	0.71	0.42	34
	21	2.21	0.69	15,219	11,905	10,935	0.30	0.85	0.20	0.20	0.21	0.24	0.32	0.66	0.41	31
	22	2.10	0.54	14,554	12,025	10,441	0.27	0.89	0.20	0.20	0.21	0.24	0.34	0.65	0.41	36
	23	2.24	0.62	14,146	12,117	9,770	0.29	1.11	0.20	0.20	0.21	0.23	0.33	0.63	0.40	30
	24	2.51	0.90	13,093	12,158	8,663	0.29	1.80	0.21	0.20	0.21	0.23	0.32	0.59	0.36	29
	25	2.54	0.83	11,842	12,145	8,793	0.33	1.76	0.20	0.20	0.21	0.23	0.66	0.57	0.34	29
	26	2.97	1.00	12,068	12,142	8,809	0.37	2.11	0.21	0.20	0.21	0.23	0.30	0.57	0.36	31
	27	3.12	1.00	12,212	12,145	8,761	0.38	2.15	0.21	0.20	0.22	0.23	0.30	0.56	0.36	29
	28	3.10	0.82	12,167	12,146	9,173	0.42	1.89	0.21	0.21	0.22	0.23	0.30	0.56	0.35	31
	29	3.13	0.93	12,731	12,166	9,024	1.08	2.02	0.22	0.21	0.22	0.22	0.30	0.55	0.37	32
	30	3.07	0.97	12,673	12,183	9,455	0.88	2.04	0.22	0.21	0.22	0.22	0.30	0.55	0.37	32

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

April 2002

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA)	0.99
California Aqueduct At Banks Pumping Plant	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	0.98 0.02
O'Niell Forebay Outlet Check 13	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.97
Delta Mendota Canal At McCabe Road	March 20, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1.06 0.01 0.03
California Aqueduct Near Kettleman City (Check 21)	March 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) Diazinon Simazine	1 0.01 0.02
California Aqueduct At Near Highway 119 (Check 21)	March 19, 2002	Simazine Diazinon 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.01 0.99
California Aqueduct At Tehachapi Afterbay (Check 41)	March 21, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.94
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	March 20, 2002	Simazine 2,4-Dichlorophenylacetic acid (DCAA)	0.02 0.91

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

April 2002

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	2,412,864	1,257,696	24,864	40,397	2,082,048	2,082,048	305,165	187
2	1,809,504	0	25,928	40,740	1,995,648	1,995,648	307,705	179
3	2,029,536	0	22,708	37,044	2,050,176	2,050,176	347,110	2,502
4	2,010,816	820,512	21,259	32,291	2,032,512	2,032,512	364,765	4,426
5	2,378,304	1,095,264	22,505	35,546	2,299,008	2,299,008	401,990	5,143
6	154,368	1,097,856	18,669	33,187	2,757,888	2,757,888	462,590	11,439
7	0	6,079,104	19,404	35,000	2,312,064	2,312,064	430,945	11,145
8	831,456	824,256	20,321	37,282	2,597,376	2,597,376	456,960	10,204
9	1,470,528	0	17,017	30,520	2,639,040	2,639,040	442,380	10,406
10	1,154,016	0	17,941	31,353	1,922,880	1,922,880	436,095	10,527
11	1,755,072	2,016	16,933	31,094	2,147,520	2,147,520	425,505	9,392
12	2,691,936	548,640	17,654	32,935	1,776,768	1,776,768	207,900	1,542
13	1,797,984	3,456	17,332	37,478	2,075,328	2,075,328	431,180	10,845
14	1,283,040	710,496	19,866	38,171	2,494,272	2,494,272	442,530	10,630
15	1,861,056	1,156,896	24,444	45,213	233,856	233,856	302,605	109
16	2,344,608	694,944	24,892	43,120	18,048	18,048	273,010	104
17	2,826,432	844,704	24,941	43,477	18,432	18,432	166,310	110
18	2,663,424	3,456	22,330	43,540	17,856	17,856	90,895	166
19	3,855,168	776,160	21,315	41,979	67,584	67,584	71,650	114
20	1,807,776	0	20,209	42,399	359,424	359,424	32,215	111
21	2,331,360	949,536	19,376	42,462	289,536	289,536	4,260	132
22	4,310,496	0	20,895	42,735	312,192	312,192	7,470	138
23	3,824,640	0	29,050	46,550	336,000	336,000	7,840	141
24	4,377,312	1,421,280	29,554	47,845	336,384	336,384	62,445	133
25	4,657,824	1,516,896	26,481	45,437	336,960	336,960	174,010	128
26	5,302,368	1,272,384	20,489	34,020	556,800	556,800	249,600	6,031
27	3,096,288	0	16,324	26,614	331,584	331,584	349,350	13,520
28	3,173,760	1,728	14,231	24,304	332,352	332,352	330,295	12,865
29	5,331,168	0	12,803	21,889	336,768	336,768	363,560	13,976
30	5,155,488	0	12,089	19,411	337,536	337,536	368,200	17,515
Total	78,698,592	21,077,280	621,824	1,104,033	35,403,840	35,403,840	8,316,535	163,860

Table 36. San Luis Field Division Energy Data

(in kWh)

April 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	1,649,376	1,400,376	0	0	21,888	21,888
2	1,868,832	1,619,832	0	0	20,448	20,448
3	1,828,512	1,579,512	0	0	21,600	21,600
4	1,472,688	1,223,688	0	0	247,104	9,104
5	1,698,768	1,449,768	0	0	843,840	10,840
6	1,704,096	1,341,096	490,464	-9,536	15,840	15,840
7	1,714,752	1,277,752	0	0	18,432	18,432
8	1,441,152	976,152	0	0	20,736	20,736
9	1,477,728	922,728	0	0	21,312	21,312
10	1,299,600	744,600	0	0	21,600	21,600
11	1,065,024	702,024	0	0	21,312	21,312
12	1,182,096	819,096	0	0	20,448	20,448
13	1,054,368	691,368	0	-500,000	19,584	19,584
14	1,205,424	845,424	0	0	20,160	20,160
15	1,053,504	690,504	1,798,272	1,798,272	6,912	6,912
16	1,011,600	648,600	1,876,608	826,608	6,912	6,912
17	1,123,056	760,056	1,897,056	847,056	6,336	6,336
18	1,337,904	974,904	2,977,056	1,927,056	7,200	7,200
19	1,232,928	869,928	4,079,232	1,979,232	6,336	6,336
20	1,292,256	929,256	3,374,496	1,274,496	7,776	7,776
21	1,227,024	867,024	2,697,120	2,097,120	7,200	7,200
22	1,072,224	709,224	3,680,640	1,580,640	6,912	6,912
23	1,217,520	854,520	3,504,096	1,389,096	7,200	7,200
24	1,289,808	926,808	2,098,656	1,393,656	7,776	7,776
25	1,419,696	978,696	2,879,136	1,124,136	7,776	7,776
26	1,411,200	970,200	2,958,336	1,338,336	8,352	8,352
27	1,207,872	766,872	3,425,184	1,805,184	8,928	8,928
28	1,282,320	850,320	2,363,040	2,003,040	8,640	8,640
29	1,057,104	616,104	3,050,784	1,025,784	7,200	7,200
30	1,358,640	917,640	3,812,832	1,787,832	8,352	8,352
Total	40,257,072	28,924,072	46,963,008	23,688,008	1,454,112	383,112

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

April 2002

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	19,572	51,392	41,958	40,104	43,434	1,302,408	1,455,192	3,229,920	11,489,760
2	26,366	71,744	40,068	37,926	40,644	1,333,152	1,460,016	3,211,776	11,519,280
3	26,250	72,704	34,614	31,914	34,578	1,363,032	1,401,408	3,096,000	11,386,080
4	26,414	72,008	39,222	36,612	39,546	1,360,584	1,443,672	3,192,480	11,376,000
5	26,342	70,792	35,406	33,156	35,856	1,301,688	1,457,784	3,266,208	11,977,920
6	25,028	66,856	34,830	32,436	35,154	1,435,824	1,493,784	3,353,472	12,198,240
7	11,176	29,704	38,646	37,116	39,942	1,338,984	1,419,264	3,198,816	11,594,880
8	18,862	51,768	38,052	35,694	38,304	1,024,776	1,136,160	2,521,728	9,042,480
9	19,338	52,344	56,736	53,568	56,304	1,083,312	1,130,688	2,494,656	9,141,120
10	17,196	49,368	78,696	75,348	77,256	1,037,736	1,114,848	2,471,328	8,951,040
11	20,798	55,352	79,236	75,978	78,066	684,432	675,648	1,467,360	5,298,480
12	18,496	53,024	70,560	66,042	68,454	1,061,712	1,091,808	2,409,408	8,566,560
13	14,870	37,448	52,596	51,588	54,180	1,127,952	1,225,440	2,702,016	9,844,560
14	8,618	22,232	50,076	46,314	50,436	1,507,680	1,614,024	3,667,392	13,470,480
15	10,238	27,128	51,930	50,652	53,208	1,027,728	1,144,584	2,477,664	8,935,920
16	18,020	49,888	53,604	50,292	53,136	1,035,360	1,059,048	2,354,688	8,434,800
17	20,178	55,240	53,892	51,660	54,756	1,089,360	1,123,632	2,462,976	8,804,880
18	25,436	68,560	74,142	70,578	73,278	1,048,536	1,113,336	2,426,112	8,806,320
19	27,962	77,240	64,728	61,578	64,800	1,086,408	1,168,560	2,557,440	9,229,680
20	20,434	56,888	70,704	67,950	70,866	1,151,208	1,232,856	2,616,768	9,387,360
21	12,402	32,136	70,794	68,094	71,442	1,469,448	1,605,528	3,619,872	13,422,240
22	21,624	59,544	85,914	83,484	85,608	1,063,728	1,150,128	2,539,584	9,102,240
23	26,794	75,304	81,270	77,670	79,704	1,018,512	1,122,912	2,412,576	8,910,720
24	28,998	78,424	87,210	84,150	89,190	1,349,784	1,386,144	3,042,432	10,988,640
25	26,192	68,080	61,272	58,284	60,570	1,305,360	1,363,968	2,987,136	10,942,560
26	28,106	78,488	84,906	82,278	83,556	1,264,608	1,372,824	3,020,256	10,931,760
27	29,078	82,712	96,012	92,088	96,084	1,243,008	1,425,312	3,161,376	11,580,480
28	20,286	57,000	59,364	56,520	60,030	1,477,152	1,632,240	3,652,992	13,580,640
29	17,024	47,048	70,110	66,618	70,344	1,277,496	1,429,776	3,165,696	11,428,560
30	19,432	53,072	86,490	84,510	84,672	1,395,864	1,432,944	3,144,960	11,428,560
Total	631,530	1,723,488	1,843,038	1,760,202	1,843,398	36,266,832	38,883,528	85,925,088	311,772,240

Table 38. Southern Field Division Energy Data

(in kWh)

April 2002

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	811,440	1,730,304	2,880,000	228,312	1,406,496	1,986,528	168,084
2	819,280	1,796,328	2,880,000	225,764	1,200,384	2,254,464	147,378
3	815,304	1,793,664	2,880,000	220,108	1,201,128	2,476,512	141,477
4	859,712	1,785,456	2,880,000	198,912	1,085,472	2,422,080	122,178
5	872,648	1,805,040	2,880,000	224,420	1,294,152	2,328,672	140,952
6	874,160	1,791,936	2,880,000	244,328	1,266,972	2,313,696	143,598
7	739,704	929,664	2,760,000	282,296	1,213,908	2,109,696	130,830
8	472,472	1,123,776	2,040,000	233,380	1,399,200	2,510,304	159,201
9	436,128	1,106,712	2,040,000	274,652	1,469,112	2,401,344	166,467
10	450,072	1,100,592	2,040,000	268,184	1,354,092	1,924,128	153,615
11	353,192	796,176	2,040,000	113,120	690,756	2,067,264	65,793
12	516,096	1,427,040	2,040,000	205,072	1,146,540	1,779,360	143,514
13	560,392	1,310,400	2,040,000	247,744	1,352,652	2,276,832	149,247
14	1,030,904	1,236,600	2,040,000	245,140	1,131,984	2,208,672	124,320
15	509,320	1,278,432	1,765,000	193,004	1,352,172	2,084,832	172,032
16	492,296	1,288,656	1,765,000	226,884	1,062,024	2,289,888	120,078
17	487,032	1,258,056	2,040,000	241,752	1,211,388	2,186,592	130,557
18	490,168	1,220,976	1,765,000	237,748	1,174,596	2,300,160	136,185
19	498,624	1,188,144	2,040,000	253,596	1,211,532	2,436,192	139,650
20	590,128	1,250,352	2,040,000	232,736	1,240,128	1,888,512	143,976
21	898,520	1,286,640	2,040,000	296,436	1,343,040	2,114,208	148,029
22	497,056	1,275,120	2,040,000	211,764	1,346,052	2,306,976	173,418
23	474,096	1,288,656	2,040,000	249,508	1,413,564	2,228,256	159,243
24	716,408	1,744,560	2,880,000	249,676	1,144,668	2,363,328	153,909
25	721,560	1,743,696	2,880,000	247,520	1,259,124	2,337,696	135,765
26	721,560	1,736,784	2,880,000	247,324	1,277,208	2,315,904	147,903
27	848,120	1,698,552	2,880,000	222,516	1,318,344	2,316,768	146,286
28	1,010,968	1,621,728	2,880,000	270,564	1,191,096	2,489,952	120,876
29	725,088	1,714,752	2,880,000	271,572	1,433,316	2,312,160	159,432
30	741,664	1,743,408	2,880,000	269,920	1,378,188	2,575,680	161,154
Total	20,034,112	43,072,200	72,015,000	7,133,952	37,569,288	67,606,656	4,305,147